Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended) A method of improving the performance of a relational database data reduction from a source database to a target database, comprising of:

a.   ~~eliminating the need for said target database to be involved in calculating new target data;~~

[[b.]]   analyzing time and date stamp of the source database to determine if a record in said source database has been changed based on a change of position of a lot from a first equipment to a second equipment;

          in response to a determination that the record has been changed, locating the record based on an identifier of the lot;

[[c.]]   deleting the record ~~changed records~~ from ~~the target data~~ a target table of the first equipment in the target database ~~to perform said data reduction,;~~ and

[[d.]]   inserting ~~updates of said changed records~~ the record into ~~said target data~~ a target table of the second equipment in the target database.

2.   (Currently Amended) The method of ~~improving the performance of a relational database data reduction of~~ claim 1, wherein ~~an equipment work in process list~~ the target table of the first equipment includes at least one lot that is ~~where many lots can be~~ associated with ~~one piece of~~ the first equipment ~~is replicated between said source database and target database~~.

3.   (Currently Amended) The method of ~~improving the performance of a relational database data reduction of~~ claim [[2]] 1, wherein ~~said changed records result from a changing of a lot position from one piece of said~~ the target table of the second equipment ~~to another~~ includes at least one lot that is associated with the second equipment.

4.   (Currently Amended) The method of ~~improving the performance of a relational database data reduction of~~ claim [[3]] 1, wherein ~~only said changed records are looked at in said source database~~ the analyzing step, the locating step, the deleting step and the inserting step are performed by a loader program.

5.   (Currently Amended) The method ~~of improving the performance of a relational database data reduction of~~ claim [[4]] 1, wherein ~~said changed records are records that are~~ the record in the source database that has been changed is no longer valid ~~and their updates~~.

6.   (Currently Amended) The method of ~~improving the performance of a relational database data reduction of~~ claim [[4]] 1, wherein ~~only looking at said changed records conserves computer resources by being source data volume independent and eliminating need to compare tables~~ the source database comprises a source table of the first equipment and a source table of the second equipment.

7.   (Currently Amended) The method of ~~improving the performance of a relational database data reduction~~ of claim 6, wherein the ~~conservation of computer resources allows for real-time synchronization between~~ source ~~said equipment work in process list~~ table of the first equipment is synchronized with the target table of the first equipment, and wherein the source table of the second equipment is synchronized with the [[and]] target table of the second equipment ~~said equipment work in process list~~.

8.   (Currently Amended) The method of ~~improving the performance of a relational database data reduction of~~ claim 1, wherein ~~replicated data~~ the record in the target table can be exported to another database or software system.

9.   (Currently Amended) A method for refining data replication between a source database and a target database, comprising of:

[[a.]]   determining if a record in the source database has been changed based on a change of position of a lot from a first equipment to a second equipment;

in response to a determination that the record in the source database has been changed, locating ~~changed records~~ a record in said source database based on an identifier of the lot;

[[b.]]   deleting the ~~outdated said changed records~~ record from a target [[data]] table of a first equipment in the target database[[,]] ;and

[[c.]]   inserting ~~updated said changed records~~ the record into a target [[data]] table of a second equipment in the target database.

10.   (Currently Amended) The method ~~for refining data replication between a source database and a target database~~ of claim 9, wherein ~~execution performance is independent of the volume of source data~~ source tables of the first and second equipments are synchronized with target tables of the first and second equipments respectively.

11.   (Currently Amended) The method ~~for refining data replication between a source database and a target database~~ of claim 9, wherein ~~said changed records are determined from~~ the determining step comprises analysis of time and date stamps in said source database.

12.   (Currently Amended) The method ~~for refining data replication between a source database and a target database~~ of claim 9, wherein the determining step, the locating step, the deleting step, and the inserting step are performed by a loader program ~~provides the computing power for the replication~~.

13.   (Currently Amended) The method ~~for refining data replication between a source database and a target database~~ of claim 12, wherein said loader program is capable of displaying on a central monitor [[the]] a manufacturing equipment environment and a lot status.

14.   (Currently Amended) A system for improving the performance of a relational database data reduction from a source database to a target database, comprising of:

a.   ~~a means to eliminate the need for said target database to be involved in calculating new target data;~~

b.   ~~a means to analyze~~ analyzing means for analyzing time and date stamp of the source database to determine if a record in said source database has been changed based on a change of position of a lot from a first equipment to a second equipment;

locating means for locating the record based on an identifier of the lot in response to a determination that the record has been changed;

c.   ~~a means to delete~~ deleting means for deleting ~~changed records~~ the record from ~~the target data to perform said data reduction~~ a target table of the first equipment in the target database[[,]] ; and

d.   ~~a means to insert~~ inserting means for inserting the record ~~updates of said changed records~~ into ~~said target data~~ a target table of the second equipment in the target database.

15.   (Currently Amended) The system ~~for improving the performance of a relational database data reduction~~ of claim 14, wherein the target table of the first equipment includes at least one lot that is ~~an equipment work in process list where many lots can be~~ associated with ~~one piece of~~ the first equipment ~~is replicated between said source database and said target database~~.

16.   (Currently Amended) The system ~~for improving the performance of a relational database data reduction~~ of claim [[15]] 14, wherein ~~said changed records result from a changing of lot position from one piece of said~~ the target table of the second equipment ~~to another~~ includes at least one lot that is associated with the second equipment.

17.   (Currently Amended) The system ~~for improving the performance of a relational database data reduction~~ of claim [[16]] 14, wherein ~~only said changed records are looked at in said source database~~ the analyzing means, the locating means, the deleting means and the inserting means are performed by a loader program.

18.   (Currently Amended) The system ~~for improving the performance of a relational database data reduction~~ of claim [[17]] 14, wherein ~~said changed records are records that are~~ the record in the source database that has been changed is no longer valid ~~and their updates~~.

19.   (Currently Amended) The system ~~for improving the performance of a relational database data reduction~~ of claim [[17]] 14, wherein ~~only looking at said changed records conserves computer resources by being source data volume independent and eliminating need to compare tables~~ the source database comprises a source table of the first equipment and a source table of the second equipment.

20.   (Currently Amended) The system ~~for improving the performance of a relational database data reduction~~ of claim 19, wherein the ~~conservation of computer resources allows for real-time synchronization between~~ source ~~said equipment work in process list and target said equipment work in process list~~ table of the first equipment is synchronized with the target table of the first equipment, and wherein the source table of the second equipment is synchronized with the target table of the second equipment.

21.   (Currently Amended) The system ~~for improving the performance of a relational database data reduction~~ of claim [[20]] 15, wherein ~~replicated data~~ the record in the target table can be exported to another database or software system.

22.   (Currently Amended) A system for refining data replication between a source database and a target database, comprising of:

determining means for determining if a record in the source database has been changed based on a change of position of a lot from a first equipment to a second equipment;

a.   ~~a means to locate~~ locating means for locating ~~changed records~~ the record in said source database based on an identifier of the lot in response to a determination that the record in the source database has been changed;

b.   ~~a means to delete~~ deleting means for deleting the ~~outdated said changed records~~ record from a target [[data]] table of a first equipment in the target database[[,]] ;and

c.   ~~a means to insert updated changed said records~~ inserting means for inserting the record into [[said]] a target [[data]] table of the second equipment in the target database.

23.   (Currently Amended) The system ~~for refining data replication between a source database and a target database~~ of claim 22, wherein ~~execution performance is independent of the volume of source data~~ a source table of the first equipment in the source database is synchronized with the target table of the first equipment and a source table of the second equipment in the source database is synchronized with the target table of the second equipment.

24.   (Currently Amended) The system ~~for refining data replication between a source database and a target database~~ of claim 22, wherein ~~said changed records are determined from analysis of~~ the determining means comprises analyzing means for analyzing time and date stamps in said source database.

25.   (Currently Amended) The system ~~for refining data replication between a source database and a target database~~ of claim 22, wherein the determining means, the locating means, the deleting means, and the inserting means are performed by a loader program ~~provides the computing power for the replication~~.

26.   (Currently Amended) The system ~~for refining data replication between a source database and a target database~~ of claim 25, wherein said loader program is capable of displaying on a central monitor [[the]] a manufacturing equipment environment and a lot status.